

WHAT IS CLAIMED IS:

1. An image processing apparatus comprising:

image pickup means for producing image data by  
photographing an image;

5 first storage means for storing image data  
obtained by said image pickup means;

size reduction means for reducing the size of the  
image data stored in said first storage means after  
reading out the image data;

10 second storage means for storing, in a unit  
corresponding to a predetermined number of lines, the  
size-reduced image data obtained by said size reduction  
means; and

single compression means for alternately  
15 performing, according to a predetermined switching  
timing, first compression processing to read out the  
image data stored in said first storage means and to  
compress the image data without reducing the size, and  
second compression processing to compress the size-  
20 reduced image data stored in said second storage means  
to obtain two kinds of compressed data representing one  
photographed image.

2. An apparatus according to Claim 1, wherein  
25 said size reduction means includes means for converting  
the format of the image data.

3. An apparatus according to Claim 1, further comprising third storage means for enabling the two kinds of compressed data corresponding to one photographed image and obtained by said first  
5 compression processing and said second compression processing to be managed by being related to each other.

4. An apparatus according to Claim 1, wherein  
10 said compression means comprises JPEG coding.

5. An image processing apparatus comprising:  
first storage means for storing input image data;  
size reduction means for reducing the size of the  
15 image data stored in said first storage means after reading out the image data;

second storage means for storing, in a unit corresponding to a predetermined number of lines, the size-reduced image data obtained by said size reduction  
20 means; and

single compression means for alternately performing, according to a predetermined switching timing, first compression processing to read out the image data stored in the first storage means and to  
25 compress the image data without reducing the size, and second compression processing to compress the size-reduced image data stored in the second storage means

to obtain two kinds of compressed data representing one photographed image.